

## **ABSTRACT**

Various antenna designs that are small and cost effective are disclosed. In one design, the antenna is a bent and folded monopole antenna. In another design, the antenna is a folded and tapped monopole antenna. In yet another design, the antenna is a folded, bent, and tapped monopole antenna. The antennas may be part of a system using two back-to-back symmetric antennas. The antennas may be part of a modem, such as a wireless computer modem or a wireless handset.